

MATERIAL SAFETY DATA SHEET

NFPA RATING: Health = 1 Flammability = 2 Reactivity = 0
HMIS RATING: Health = 1/1 Flammability = 2 Reactivity = 0

SECTION I -- IDENTITY AND MANUFACTURER'S INFORMATION (486N-61A)

Manufacturer's Name: HILLYARD INDUSTRIES **Product Name:** ARSENAL RESTORER
Address: 302 North Fourth Street **Date Prepared:** April 1, 2003
 St. Joseph, MO 64501 **Prepared by:** Regulatory Affairs Department

Emergency Telephone No.: (800) 424-9300 (Only in the event of chemical emergency involving a spill, leak, fire, exposure or accident involving chemicals.) **Other information calls:** (816) 233-1321 (Ext.8285)

<http://www.hillyard.com>

SECTION II -- INGREDIENTS/IDENTITY INFORMATION

Components

(Specific Chemical Identity:

Common Name(s)	CAS#	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED	%
Dipropylene glycol methyl ether (1)	34590-94-8	100 ppm	100 ppm	STEL 150	2-4
Isopropyl alcohol (not strong acid process) (2)	67-63-0	400 ppm	400 ppm	STEL 500	1-3
Water	7732-18-5	not established	not established	N/A	---
Acrylic copolymer emulsion	unknown to Hillyard	not established	not established	N/A	---

(1) Regulated by OSHA and the following states: FL, IL, LA, MA, NJ, PA, RI

(2) Regulated by OSHA and the following states: CT, FL, IL, LA, MA, NJ, PA, RI

VOC = Less than 7%

SECTION III -- PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: 203°F **Specific Gravity (H₂O = 1):** 25°C = 1.007 39°C = 1.006
Vapor Pressure (mm Hg.): 17.5 **Percent Volatile by Volume (%):** 97.66
Vapor Density (AIR = 1): 0.8 **Evaporation Rate (ethyl ether = 1):** slower than 1
Solubility in Water: complete **Appearance and Odor:** Clear, red liquid; fruit punch odor
pH (concentrate): 8

SECTION IV -- FIRE AND EXPLOSION HAZARD DATA

Flash point: 150°F (Tag Closed Cup) **Flammable Limits:** LEL = 1.1% UEL = N/A
Extinguishing Media: Carbon dioxide, dry chemical, alcohol foam
Special Fire Fighting Procedures: Water spray may be ineffective, but may be used to cool closed containers. Self-contained breathing apparatus and protective clothing should be worn.
Unusual Fire and Explosion Hazards: Material may spatter if temperatures exceed boiling point. Polymer film can burn. Keep away from heat, sparks and open flame.

SECTION V -- PHYSICAL HAZARDS

Stability: Stable **Conditions to Avoid:** Stable under normal storage conditions
Incompatibility (Materials to Avoid): oxidizing material
Hazardous Decomposition Products or Byproducts: carbon monoxide from burning
Hazardous Polymerization: Will not occur **Conditions to Avoid:** N/A

SECTION VI -- HEALTH HAZARD DATA

Routes of entry: Inhalation? N/A Skin? N/A Ingestion? N/A

HEALTH HAZARDS (1. Acute and 2. Chronic)

1. Not a primary skin irritant; testing showed the product concentrate is a primary eye irritant. Acute toxicity is estimated to be greater than 5 gm./kg. Not acutely toxic at a nominal concentration of 57.90 mg./L (actual concentration 37.3 mg./L). Prolonged overexposure to dipropylene glycol methyl ether may cause respiratory tract irritation. 2. Known none to Hillyard Industries.

Chemical listed as Carcinogen or Potential Carcinogen:

National Toxicology Program = No **I.A.R.C. Monographs =** No **OSHA =** No

This product has no carcinogens listed by IARC, NTP, NIOSH, or ACGIH as of this date, greater than or equal to 0.1%.

SECTION VI -- HEALTH HAZARD DATA continued

Signs and Symptoms of Exposure: Overexposure to high airborne levels or liquid splashes of dipropylene glycol methyl ether may cause irritation of eyes and nose. Swallowing, breathing or absorbing this chemical through the skin may cause nausea and sleepiness.

Medical Conditions Generally Aggravated by Exposure: Prolonged overexposure to Dipropylene glycol methyl ether may aggravate impaired liver and kidney functions.

Emergency and First Aid Procedures: If splashed into eyes flush with water for 15 minutes; if irritation persists get medical attention. Flush skin with water. **Ingestion:** Drink large quantity of water; induce vomiting; call physician. **Inhalation:** Remove to fresh air. Get medical attention.

SECTION VII -- PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken In Case Material Is Released Or Spilled: Remove all ignition sources. Pick up with mop and wash away with water.

Waste Disposal Method: Wash small quantities down sewer with large amount of water. Keep spills and cleaning runoffs out of municipal sewers and open bodies of water. Large spills should be picked up with absorbent material. Landfill solids or incinerate liquid in approved incinerator. Dispose of in accordance with local, state and federal regulations.

Precautions To Be Taken In Handling And Storing:* Since empty packages retain product residue, follow label warnings even after package is empty. Keep container closed when not in use. Do not store at temperatures above 110°F. USE WITH ADEQUATE VENTILATION. Avoid breathing vapors or spray mist. Open windows and doors, use exhaust fans or other means to insure fresh air entry during application and drying. Refer to OSHA Standard 29 CFR 1910.94 for technical guidelines on keeping air contamination below acceptable exposure limits. Avoid prolonged contact with skin. Do not take internally.

Other Precautions: * This product contains no reportable quantities of toxic chemicals subject to reporting requirements of Section 313 of SARA Title III Emergency Planning and Community Right to Know Act of 1986 and of 40 CFR Part 372.

SECTION VIII -- CONTROL MEASURES

Respiratory Protection (Specify Type): Wear appropriate, properly fitted respirator (NIOSH or MSHA approved) unless air monitoring demonstrates vapor or mist levels are below applicable limits.

Ventilation: at least 10 air changes per hour recommended

Local Exhaust = recommended **Mechanical (General) =** recommended **Special =** N/A **Other =** N/A

Protective Gloves: impervious rubber gloves **Eye Protection:** chemical safety goggles

Other Protective Clothing or Equipment: protective clothing such as uniforms, coveralls

Work / Hygienic Practices: Wash contaminated clothing before reuse (including shoes).

SECTION IX - TRANSPORTATION INFORMATION

Applicable regulations: 49 CFR = no; IMCO = no; IATA = no.

Proper shipping name: Liquid floor wax and polish.

UN No.: not applicable; **Limited Qty.:** not applicable; **Hazard class:** not applicable

Labels required: not applicable; **DOT Exception:** not applicable

EPA Hazardous waste characteristics:

Ignitability = not applicable; **Corrosivity =** not applicable; **Reactivity =** not applicable

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